

# The Ultimate ACS Study Guide

Advanced Cardiac Life Support (ACLS) provides guidelines for healthcare professionals for all types of cardiac emergencies.



## EKG Anatomy



**P-Wave** = electrical activity in the upper heart chambers; represents contraction of SA node and AV node.

**PR Interval** = time from P wave to QRS complex.

**QRS Complex** = ventricular depolarization.

**ST Segment** = transition from ventricular depolarization to repolarization. Repolarization starts at the end of the QRS complex.

**T-Wave** = repolarization of upper heart.

## ECG Rhythms

**Ventricular Fibrillation** - no organized blood, immediate defibrillation.

**Ventricular Tachycardia** - ventricular arrhythmia. Heart rate 100-250 bpm. Immediate cardioversion.

**P纈tential &逸搏 (Fibrillation Activity)** - fibrillation rate 300-500 bpm.

**Atrial Fibrillation** - on EKG, if leads are all connected, begin CPR immediately.

**Sinus Bradycardia** - rate less than 60 bpm, no cause/minute. Prolonged PR interval if not otherwise.

**1st Degree AV Block** - prolonged PR interval. Rhythm normal.

**2nd Degree Block Type I - Wenckebach** - progressive PR interval lengthening. Gradual complete. Rhythm requires treatment.

**2nd Degree Block Type II - Mobitz I** - ventricular逸搏 (fibrillation activity). Usually no pulse.

**3rd Degree Block** - between SA and AV nodes. Complete heart block. Prolonged PR interval.

**Sinus Tachycardia** - increased heart rate of 100-150 beats per minute. No cause/minute. Rhythm normal.

**Supraventricular Tachycardia** - increased heart rate of 150-250 beats per minute. No cause/minute. Rhythm normal.

**Monomorphic Ventricular Tachycardia** - no cause/minute. Rhythm normal. Prolonged PR interval.

**Polyomorphic Ventricular Tachycardia** - no cause/minute. Different shapes and rates.

**Torsades de Pointes** - different shapes of QRS complexes. Forms a spiral pattern. No cause/minute - treat with magnesium.



## Electrical Therapy Basics



**Defibrillation** - uses an automated external defibrillator (AED).

**Synchronized Cardioversion** - synchronized to the patient's heart rate.

**Transcutaneous Pacing** - treats abnormally slow heart rate.

## Airway Management



**Adjuncts**

- Oropharyngeal (OP) airway - use for unconscious patient with a head injury.
- Nasopharyngeal (NP) airway - use for unconscious patient without a head injury. NEVER USE WITH A HEAD INJURY.

**Advanced Airways** - recommended method, use with a head injury. Without endotracheal intubation, use a cricothyrotomy. Use auffed endotracheal tube if unfamiliar with endotracheal tube.

## Post-Resuscitation Care



### Follow the ABCDs:

- Airway - maintain ventilation and oxygenation.
- Breathing - keep PETCO<sub>2</sub> between 35-40mmHg.
- Circulation - use a monitor to measure blood pressure of 90mmHg.
- Differential Diagnosis - use Hx and T's to determine contributing factors to cardiac arrest.

## Acute Coronary Syndromes (ACS)

### Unstable Angina

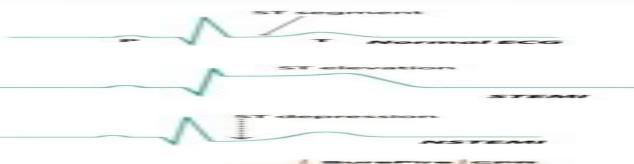
- Unexpected chest pain due to poor blood flow.
- Increased pain.
- Blood thinners.
- Angiogram: open or narrow or blocked artery.

### ST-segment Elevation MI (STEMI)

- Total blockage of a coronary artery.
- Electrical activity during the ST-segment shows ST-segment elevation.
- Coronary intervention (PCI) or emergency CABG surgery.

### Non-ST-segment Elevation MI (NSTEMI)

- Partial blockage of a coronary artery.
- ST-segment depressed instead of elevated.
- Inflammation.
- Immediate PCI or emergency CABG surgery.
- Coronary artery bypass grafting (CABG) surgery.



## Stroke Assessment and Treatment

Cardiac arrest is a frequent complication after an acute ischemic stroke. If a stroke is suspected, immediately transport to the nearest Stroke Receiving Center.

### Cincinnati Prehospital Stroke Scale:

1. Age >60
2. Arm drift
3. Speech

“You can't teach an old dog new tricks”



## Code Termination

Consult with medical control before code termination.



- Persistent asystole 25 minutes or longer.
- Obvious signs of death.
- Withdraw resuscitation efforts.

Disclaimer: Information on this page is for informational and educational only and should not be used as a substitute for professional medical advice or treatment.

# Acls 2013 Study Guide

**Wenbin Ji**

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**Neonatal Intensive Care Nursing Exam Prep Study Guide** Springer Publishing Company, 2023-04-24 Neonatal Intensive Care Nursing Exam Prep Study Guide gets right to the point with a targeted content based on the latest NCC exam blueprint. This easy to follow guide includes all the tools you need to prepare, practice and pass the exam and nothing you don't PREPARE. Concise coverage of the content you'll be tested on. Quick reference features with complications alerts and nursing pearls. Need to know information to prepare you for exam day. PRACTICE Two full length practice tests one in book and one online to assess your readiness and simulate the test taking experience. Detailed rationales for correct and incorrect answers. Pop quizzes that highlight key information you don't want to miss. PASS The first time with Springer Publishing Exam Prep's 100% Pass Guarantee. With confidence knowing you're well prepared with all the skills and knowledge you need on exam day and in practice. With pride in your commitment to patient health and safety. RNC NIC is a registered trademark of National Certification Corporation. NCC NCC does not endorse this exam preparation resource nor do they have a proprietary relationship with Springer Publishing Company.

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**Nursing & Health Professions - eBook** Mosby,2016-04-28 Make sense of the complex world of health care with Mosby s Dictionary of Medicine Nursing Health Professions 10th Edition This one stop reference includes detailed entries that help you communicate more effectively with colleagues in various disciplines With over 56 000 definitions 2 450 photographs and line drawings and supporting reference appendixes and atlases it is an indispensable reference for students and professionals alike Over 56 000 entries offer detailed definitions as well as the latest information on pathophysiology treatment and interventions and nursing care More than 2 450 color photographs and line drawings demonstrate and explain complex conditions and abstract concepts Strict common sense alphabetical organization makes it easy to find key terms and definitions Detailed appendixes provide you with useful information on lab values symbols and abbreviations pharmacology infection control standards and more that can be used throughout your health career NEW Approximately 5 000 new and revised definitions reflect the latest developments in health care drugs and nursing terminology NEW Completely updated illustrations visually clarify key definitions to reflect current healthcare practice and equipment

### **Obstetric Anesthesia:**

**Quick References & Practical Guides** Philip E. Hess,Yunping Li,John J. Kowalczyk,Justin K. Stiles,2023-06-20 This succinct evidence based book delivers everything you need to provide safe effective care to pregnant women in subacute and

emergency situations A quick reference guide designed for on the spot clinical guidance Obstetric Anesthesia Quick References Practical Guides fills a gap in the current literature by distilling the information of a comprehensive textbook into a quick review and provides standard instructions that can be integrated into everyday practice You'll find a collection of common and uncommon clinical challenges with up to date obstetric anesthesia practices that serve both experienced and novice clinicians Chapters include a brief review of the topic clinical pearls bullet points and tables highlighting key information references for the latest scientific information and primary literature as well as guides protocols or standard operating procedures for immediate application all based on the BIDMC Department of Anesthesia's long history of providing cutting edge care for pregnant women The text also serves as a clinical reference guide and teaching tool Obstetric Anesthesia Quick References Practical Guides Describes tools and methods for caring for pregnant women in labor Includes the best scientific evidence and BIDMC's Department of Anesthesia's Obstetrical Division's thoroughly tested institutional practices used for the care of pregnant women Incorporates clear step by step instructions and up to date guidelines and standards Provides essential information in each chapter followed by evidence based best practices for the given topic li Pairs succinct presentations with relevant and practical instructions for patient care to support emergency decision making problem solving and patient safety

*CURRENT Medical Diagnosis and Treatment 2013* Maxine A. Papadakis, Stephen J. McPhee, Michael W. Rabow, 2012-09-21 The 1 bestselling annual guide to internal medicine now completely updated Learn from the experts and accelerate your clinical decision making Internationally acclaimed for its scholarship conciseness full color presentation and encyclopedic scope CMDT puts the latest research where it belongs into your practice The new edition of this streamlined clinical companion delivers at a glance summaries of the signs symptoms epidemiology etiology and treatment options for more than 1 000 diseases and disorders Practitioners in both the hospital and ambulatory settings rely on CMDT to keep up with new medical advances prevention strategies and cost effective therapies Here's why CMDT is essential to clinical practice Covers the fundamentals of clinical diagnosis and patient management in all fields of internal medicine A to Z survey of all primary care topics including gynecology and obstetrics dermatology neurology ophthalmology otolaryngology psychiatry neurology toxicology urology geriatrics orthopedics and palliative care The only text with an annual update on the treatment of HIV infection and AIDS Easy to navigate design with numerous figures and tables Drug treatment tables with indexed trade names and updated costs in each section Current references with PubMed and PMID numbers Essentials of Diagnosis callouts for most diseases disorders ICD 9 codes listed on inside covers NEW TO THIS EDITION New chapter on Women's Health Issues Extensively revised chapters Viral Rickettsial Infections Disorders Related to Environmental Factors and Blood Disorders Coverage of critical developments in anticoagulation and antiplatelet therapy antihypertensive therapy hematology neurology infectious disease and cardiovascular medicine Important updates in oncology including breast cancer treatment options new lung cancer screening protocols and cervical screening

recommendations New risk assessment model for deep vein thrombosis DVT and DVT preventive therapies following hip or knee replacement Recent CDC guidelines on adult and adolescent immunizations and the treatment of sexually transmitted infections Overview of new medications including ivacaftor eltrombopag romiplostim and eculizumab Extensive revision of the section on rhabdomyolysis New section on peripheral artery aneurysms **Scholarships, fellowships and loans :  
a guide to education-related financial aid programs for students and professionals** ,2006 *ACLS Study Guide* ,1994

Pharmacotherapy Casebook: A Patient-Focused Approach, 10/E Terry L. Schwinghammer,2017-06-22 More than 150 patient cases teach you how to apply the principles of pharmacotherapy to real world clinical practice The essential study companion to DiPiro s Pharmacotherapy A Pathophysiologic Approach 10th Edition Pharmacotherapy Casebook A Patient Focused Approach uses 157 patient cases to help you develop the skills necessary to identify and resolve the most common drug therapy problems encountered in daily clinical practice The case chapters are organized into organ system sections that correspond to those of the companion textbook This proven effective case based approach makes the book perfect for PharmD Nursing Nurse Practitioner and other allied health courses Sharpen your ability to Identify actual or potential drug therapy problems Determine the desired therapeutic outcome Evaluate therapeutic alternatives Design an optimal individualized pharmacotherapeutic plan Develop methods to evaluate the therapeutic outcome Provide patient education Communicate and the implement the pharmacotherapeutic plan Develop expertise in pharmacotherapy decision making with Realistic patient presentations that include medical history physical examination and laboratory data followed by a series of questions using a systematic problem solving approach A compelling range of cases from a single disease state to multiple disease states and drug related problems Expert coverage that integrates the biomedical and pharmaceutical sciences with therapeutics Appendices containing valuable information on medical abbreviations laboratory tests mathematical conversion factors and anthropometrics **The Awards Almanac 1995** Miranda H. Ferrara,1995 *ACLS-2013-Arrhythmias (Expanded Version)* Ken Grauer,2013 ACLS 2013 Arrhythmias Expanded Version is brand new We have more than doubled the size and greatly enhanced the content of our ACLS 2013 Pocket Brain book including addition of more than 100 new pages and figures on arrhythmia interpretation Noteworthy features of this brand new edition include Expanded content 292 pages 8 5 X 5 5 size spiral binding Features the same user friendly format of the ACLS 2013 PB with Rapid Find CONTENTS on inside front cover allowing near instant retrieval of the info you are seeking NOTE Sample pages are available below under Take a Look for topics underlined in RED in Contents Specific discussion of current recommendations in the ACLS Provider Manual ACLS PM with addition of a Beyond the Textbook section following each algorithm for more experienced providers and those who want to know more More than 200 Figures tracings illustrations Tables plus numerous Practice Tracings with detailed explanations NEW Sections have been added to this book compared to the Pocket Brain including Who to Cath Post Resuscitation Who to Cool Use of Echo during Cardiac Arrest Capnography plus what constitutes virtually an entire book on

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emergency medicine procedures and most importantly your ability to deliver positive patient outcomes Harrison's Principles of Internal Medicine 20/E (Vol.1 & Vol.2) (ebook) Dennis L. Kasper, Anthony S. Fauci, Stephen L. Hauser, Dan L. Longo, J. Larry Jameson, Joseph Loscalzo, 2018-02-06 Publisher's Note There is a new edition of Harrison's Principles of Internal Medicine The 21st edition contains the most timely and comprehensive updates from the world's top experts. **MASTER MODERN MEDICINE** Introducing the Landmark Twentieth Edition of the Global Icon of Internal Medicine The definitive guide to internal medicine is more essential than ever with the latest in disease mechanisms updated clinical trial results and recommended guidelines state of the art radiographic images therapeutic approaches and specific treatments hundreds of demonstrative full color drawings and practical clinical decision trees and algorithms Recognized by healthcare professionals worldwide as the leading authority on applied pathophysiology and clinical medicine Harrison's Principles of Internal Medicine gives you the informational foundation you need to provide the best patient care possible Essential for practice and education the landmark 20th Edition features Thoroughly revised content covering the many new breakthroughs and advances in clinical medicine that have occurred since the last edition of Harrison's Chapters on acute and chronic hepatitis management of diabetes immune based therapies in cancer multiple sclerosis cardiovascular disease HIV and many more deliver the very latest information on disease mechanisms diagnostic options and the specific treatment guidance you need to provide optimal patient care State of the art coverage of disease mechanisms Harrison's focuses on pathophysiology with rigor and with the goal of linking disease mechanisms to treatments Improved understanding of how diseases develop and progress not only promotes better decision making and higher value care but also makes for fascinating reading and improved retention Harrison's summarizes important new basic science developments such as the role of mitochondria in programmed and necrotic cell death the immune system's role in cancer development and treatment the impact of telomere shortening in the aging and disease processes and the role of the microbiome in health and disease Understanding the role of inflammation in cardiovascular disease the precise mechanisms of immune deficiency in HIV AIDS prions and misfolded proteins in neurodegenerative diseases and obesity as a predisposition to diabetes are just a few examples of how this edition provides essential pathophysiology information for health professionals All new sections covering a wide range of new and emerging areas of vital interest to all healthcare professionals New sections include Sex and Gender based Issues in Medicine Obesity Diabetes Mellitus and Metabolic Syndrome and Consultative Medicine Plus a new Part covering cutting edge topics in research and clinical medicine includes great new chapters on the role of Epigenetics in Health and Disease Behavioral Strategies to Improve Health Genomics and Infectious Diseases Emerging Neuro Therapeutic Technologies and Telomere Function in Health and Disease and Network System Medicine Important and timely new chapters such as Promoting Good Health LGBT Health Systems of Healthcare Approach to Medical Consultation Pharmacogenomics Antimicrobial Resistance Worldwide Changes in Patterns of Infectious Diseases Neuromyelitis Optica and more offer the very

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